

SECTION 09 65 19
RESILIENT TILE FLOORING

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Resilient tile.
- B. Edging strips.
- C. Base.
- D. Underlayment and floor patch.
- E. Adhesives and primers.

1.02 MEASUREMENT AND PAYMENT

- A. General: Resilient tile flooring and base will not be measured separately for payment but will be paid for as part of the Contract lump sum price for Architectural Work.

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
 - 2. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source
 - 3. ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
 - 4. ASTM F1066 Standard Specification for Vinyl Composition Floor Tile
 - 5. ASTM F1700 Standard Specification for Solid Vinyl Floor Tile
 - 6. ASTM F1861 Standard Specification for Resilient Wall Base
- B. Resilient Floor Covering Institute (RFCI):
 - 1. RFCI Installation
- C. National Sanitation Foundation(NSF)/ American National Standards Institute (ANSI)
 - 1. NSF/ANSI 332 Sustainability Assessment for Resilient Floor Coverings

- D. National Fire Protection Association
 - 1. NFPA 101 Life Safety Code

1.04 SUBMITTALS

- A. General: Refer to Section 01 33 00, Submittal Procedures, and Section 01 33 23, Shop Drawings, Product Data, and Samples, for submittal requirements and procedures.
- B. Samples: Submit samples of resilient tile, resilient base, edge trim, and accessories. Resilient tile and base require approval of the Engineer before they may be purchased for this work.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Tile: ASTM F1066 and F1700. Resilient tile shall meet the following requirements:
 - 1. Flame Spread: 25 maximum, according to NFPA 101, Section 10.2.3.4.1, when tested in accordance with ASTM E84.
 - 2. Smoke Developed: 450 maximum when tested in accordance with ASTM E662.
 - 3. Critical Radiant Flux: 0.45 minimum when tested in accordance with ASTM E648.
 - 4. Gage: 1/8 inch.
 - 5. Size, Color, and Pattern: As indicated, or as selected by the Engineer from manufacturer's standard colors and patterns. Color and pattern shall extend through the body of the tile.
 - 6. Sustainability: NSF/ANSI 332.
- B. Edging Strips: Molded vinyl 1-1/2 inch by 1/8-inch thick, with exposed edge 1/4-rounded, in color as selected by the Engineer from manufacturer's standards.
- C. Base: ASTM F1861, topset cove, solid vinyl or rubber.
 - 1. Size: Four inches high, unless otherwise indicated.
 - 2. Color: As indicated, or as selected by the Engineer from manufacturer's standard colors.
- D. Underlayment and Floor Patch: Floor patch and leveling compound or underlayment shall be products manufactured for the purpose as recommended by the manufacturer of the resilient flooring furnished.

- E. Adhesives and Primers: Products specified or recommended by the manufacturers of the particular resilient flooring and base furnished.

PART 3 – EXECUTION

3.01 INSPECTION AND PREPARATION OF SURFACES

- A. Inspection of Substrate Surfaces: Before starting the installation of resilient flooring and base, examine all surfaces on which the finish flooring and base are to be applied. Examination includes bond, moisture, and alkali testing of concrete subfloors. Any defective surfaces or conditions preventing proper execution of the work shall be corrected as required.
- B. Cleaning and Preparation of Substrate Surfaces: Subsurfaces and backing surfaces shall be dry, clean of dust, paint spots, grease, and bond breaking or curing compounds. Subsurfaces shall also be free from roughness and sharp edges to prevent protrusions and bulges after resilient material is laid or applied. Fill all joints, cracks, and depressions in concrete slabs with specified floor patch and underlayment material.
- C. Beginning Work: Installation shall not begin until the work of other trades in the area, including painting, has been completed.
- D. Responsibility: Nothing specified herein shall be construed as relieving the Contractor of any responsibility for the quality of the finished installation. Surfaces on which resilient flooring and base are to be applied shall be level and in proper condition in every respect for an acceptable installation and long life without defects.

3.02 INSTALLATION

- A. Installation Standards: Comply with RFCI Installation and ASTM F1861, as appropriate.
- B. Installation Requirements: Keep materials at a temperature of 70 degrees Fahrenheit or higher for at least 48 hours before using, and maintain 70 degrees Fahrenheit or higher room temperatures at least three Days before, during, and after application of materials. Apply materials in accordance with the flooring manufacturer's installation instructions. Materials shall be installed only by skilled and experienced applicators authorized and approved by the flooring manufacturer.
- C. Resilient Tile:
 1. Tile Layout: Lay out center lines in both directions of room parallel to walls. Adjust to make cut tile borders of equal width on opposite sides. Avoid using less-than-half-width tiles. Lay tile with joints aligned and without contrasting borders. Lay tile with grain running in the same direction.
 2. Application of Adhesive: After joints, cracks, and depressions in concrete slabs have been filled with floor patch and leveling compound, and floors have been

primed (if recommended by flooring manufacturer), apply the specified adhesive with a notched steel trowel to ensure an even bed of adhesive for the tile. Cross-trowel to achieve an even thickness.

3. Laying of Tile: Lay tile when adhesive has set tacky, starting at the center of the room and working toward walls. Embed each tile in adhesive with closely fitted, straight, hairline joints. Do not cut tile except at walls or obstructions. Neatly scribe around pipes, fixtures, and equipment to form tight joints free of gaps. Finished floors shall be smooth and free from buckles, cracks, breaks, waves, and projecting edges and shall fit neatly at pipes and other installations and obstructions. Remove excess adhesive.
 4. Tile at Permanent Cabinets: Tile is not required under fixed cabinets having covered fronts and integral bottoms and which are permanently anchored to the structure.
 5. Edging Strips: Install edging strips wherever tile terminates at an opening or where there is an unprotected edge. Top of strips shall be flush with top of tile.
- D. Base: Complete resilient flooring installation before applying base. Install base on all walls as indicated and on fronts, toe spaces, and finished backs and ends of cabinets with adhesive recommended by manufacturer of base. Apply adhesive to both wall and base and press firmly into place. Maintain top edge at true horizontal line. Toe of coved base shall contact floor for entire length. Closely butt end joints, top edge, and faces flush. Remove excess adhesive.

3.03 CLEANING, SEALING, AND PROTECTION

- A. Traffic: Until floors are well seated, at least 72 hours, at a maintained temperature of not less than 70 degrees Fahrenheit, traffic shall be kept to a minimum, and fixtures, equipment, trucks, and similar equipment or vehicles shall not be permitted to travel over floors.
- B. Cleaning and Sealing: Just before turning station structure or building over to the District, and not before, clean resilient flooring and base thoroughly in accordance with the flooring manufacturer's recommendations. After cleaning, apply one coat of approved non-skid finish to floors and polish with a mechanical buffer.
- C. Protection: Install clean plywood or board walks over clean, non-staining building paper where any traffic from other trades must pass over completed resilient floors. Maintain protection until acceptance by the District and Contract substantial completion.

END OF SECTION 09 65 19